



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010663  
CERTIFICATION DATE: March 20, 2014  
DATE RECERTIFICATION DUE: September 16, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

|                           |                           |
|---------------------------|---------------------------|
| $0.020 \pm 0.004$ g/210 L | $0.150 \pm 0.007$ g/210 L |
| $0.080 \pm 0.004$ g/210 L | $0.250 \pm 0.007$ g/210 L |

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of  $k=3$ . The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

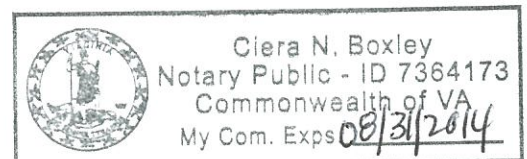
Timmy L. Neece, Jr.  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 25<sup>th</sup> day of March, 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



MBK

DBH  
TLV

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 3/21/2014**

**Instrument Serial Number: 010663 As of 21-Mar-14**

| Maintenance | Certification | Technician  |   |
|-------------|---------------|-------------|---|
| Date        | Date          | Initials    | Remarks   |
| 20-Mar-14   | 20-Mar-14     | DBH (21250) | CERTIFIED. REPLACED DRY GAS STANDARD.   |
| 01-Oct-13   | 01-Oct-13     | HMS (18910) | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD. |
| 18-Apr-13   | 18-Apr-13     | DBH (21250) | CERTIFIED.  |
| 08-Nov-12   | 08-Nov-12     | DBH (21250) | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD. |
| 23-May-12   | 23-May-12     | DBH (21250) | CERTIFIED   |
| 08-Dec-11   | 08-Dec-11     | DBH (21250) | CERTIFIED   |
| 30-Jun-11   | 30-Jun-11     | DBH (21250) | REPLACED DRY GAS STANDARD, CERTIFIED  |
| 05-Jan-11   | 05-Jan-11     | DBH (21250) | REPLACED DRY GAS STANDARD, CERTIFIED  |
| 22-Jul-10   | 22-Jul-10     | DBH (21250) | CERTIFIED   |
| 11-Jun-10   | 04-Feb-10     | DBH (21250) | REPLACED DRY GAS STANDARD   |
| 04-Feb-10   | 04-Feb-10     | DBH (21250) | REPLACED DRY GAS STANDARD, CERTIFIED  |
| 09-Sep-09   | 09-Sep-09     | DBH (21250) | CERTIFIED.  |
| 19-Mar-09   | 19-Mar-09     | DBH (21250) | CERTIFIED.  |
| 11-Mar-09   | 11-Mar-09     | NMJ (22392) | FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.   |
| 06-Feb-09   | 06-Feb-09     | NMJ (22392) | CALIBRATED, CERTIFIED AND ACCEPTED.   |

DBH  
TLN

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010663 Worksheet Start Date 3/20/2014  
Location Fort Story  
Address 700 Leyte Rd Fort Story VA 23459  
DFS Technician Donald Hall License No. 21250  
☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 757 Reference Barometer (mm HG) 758  
Reference Barometer(RB)Serial # 009109 RB Calibration Due 8/1/2014

## Measurement Assurance Check

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.302 |
| 0.300                | 0.299     | 0.290      | 0.307      | Sample 2 | 0.302 |
| Precision            |           | sample min | sample max | Sample 3 | 0.301 |
| 0.001                |           | 0.301      | 0.302      |          |       |

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.100 |
| 0.100                | 0.100     | 0.097      | 0.103      | Sample 2 | 0.100 |
| Precision            |           | sample min | sample max | Sample 3 | 0.100 |
| 0                    |           | 0.100      | 0.100      |          |       |

Dry gas standard Lot No. (with tank no.) AG227501-28

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



Notes:

Instrument Serial Number

010663

Certification Date

3/20/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

|                             |                  |                   |                   |                 |       |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| <b>Standard (sea level)</b> | <b>PA Target</b> | <b>minimum</b>    | <b>maximum</b>    | <b>Sample 1</b> | 0.247 |
| 0.250                       | 0.249            | 0.241             | 0.256             | <b>Sample 2</b> | 0.247 |
| <b>Precision</b>            |                  | <b>sample min</b> | <b>sample max</b> | <b>Sample 3</b> | 0.247 |
| 0                           |                  | 0.247             | 0.247             |                 |       |

|                             |                  |                   |                   |                 |       |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| <b>Standard (sea level)</b> | <b>PA Target</b> | <b>minimum</b>    | <b>maximum</b>    | <b>Sample 1</b> | 0.148 |
| 0.150                       | 0.149            | 0.144             | 0.153             | <b>Sample 2</b> | 0.149 |
| <b>Precision</b>            |                  | <b>sample min</b> | <b>sample max</b> | <b>Sample 3</b> | 0.148 |
| 0.001                       |                  | 0.148             | 0.149             |                 |       |

|                             |                  |                   |                   |                 |       |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| <b>Standard (sea level)</b> | <b>PA Target</b> | <b>minimum</b>    | <b>maximum</b>    | <b>Sample 1</b> | 0.080 |
| 0.080                       | 0.080            | 0.077             | 0.083             | <b>Sample 2</b> | 0.080 |
| <b>Precision</b>            |                  | <b>sample min</b> | <b>sample max</b> | <b>Sample 3</b> | 0.080 |
| 0                           |                  | 0.080             | 0.080             |                 |       |

|                             |                  |                   |                   |                 |       |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| <b>Standard (sea level)</b> | <b>PA Target</b> | <b>minimum</b>    | <b>maximum</b>    | <b>Sample 1</b> | 0.019 |
| 0.020                       | 0.020            | 0.017             | 0.023             | <b>Sample 2</b> | 0.019 |
| <b>Precision</b>            |                  | <b>sample min</b> | <b>sample max</b> | <b>Sample 3</b> | 0.019 |
| 0                           |                  | 0.019             | 0.019             |                 |       |

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician



Date

3/21/14

Issuing Analyst



Date

3/21/14

msk

**Intox EC/IR-11: Certification**

DBH  
TLN

**Department of Forensic Science**

Serial Number: 010663      Test Number: 167  
Test Date: 03/20/2014      Test Time: 14:05 EDT

Technician Initials: DBH

Dry Gas Target: 0.249

Lot Number: 2961225012-09      Exp Date: 11/01/2014

Tank Pressure: 301 psi      Barometric Pressure: 757 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 14:06 |
| BLK  | 0.000  | 14:06 |
| CHK  | 0.247  | 14:07 |
| BLK  | 0.000  | 14:09 |
| CHK  | 0.247  | 14:09 |
| BLK  | 0.000  | 14:11 |
| CHK  | 0.247  | 14:12 |
| BLK  | 0.000  | 14:14 |

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

DBH  
TLN

*Department of Forensic Science*

Serial Number: 010663      Test Number: 168

Test Date: 03/20/2014      Test Time: 14:16 EDT

Technician Initials: DBH

Dry Gas Target: 0.149

Lot Number: 2951215012-04      Exp Date: 11/01/2014

Tank Pressure: 816 psi      Barometric Pressure: 757 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 14:17 |
| BLK  | 0.000  | 14:17 |
| CHK  | 0.148  | 14:18 |
| BLK  | 0.000  | 14:19 |
| CHK  | 0.149  | 14:20 |
| BLK  | 0.000  | 14:22 |
| CHK  | 0.148  | 14:23 |
| BLK  | 0.000  | 14:24 |

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

DBH  
TL~

**Department of Forensic Science**

Serial Number: 010663      Test Number: 169

Test Date: 03/20/2014      Test Time: 14:26 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 0771308012-01      Exp Date: 05/01/2015

Tank Pressure: 330 psi      Barometric Pressure: 757 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 14:27 |
| BLK  | 0.000  | 14:28 |
| CHK  | 0.080  | 14:28 |
| BLK  | 0.000  | 14:30 |
| CHK  | 0.080  | 14:30 |
| BLK  | 0.000  | 14:32 |
| CHK  | 0.080  | 14:32 |
| BLK  | 0.000  | 14:34 |

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH  
TLW

**INTOX EC/1R-11: Certification**

*Department of Forensic Science*

Serial Number: 010663      Test Number: 170

Test Date: 03/20/2014      Test Time: 14:36 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02      Exp Date: 05/01/2015

Tank Pressure: 370 psi      Barometric Pressure: 757 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 14:36 |
| BLK  | 0.000  | 14:37 |
| CHK  | 0.019  | 14:38 |
| BLK  | 0.000  | 14:39 |
| CHK  | 0.019  | 14:40 |
| BLK  | 0.000  | 14:41 |
| CHK  | 0.019  | 14:42 |
| BLK  | 0.000  | 14:43 |

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



DBN  
TLN

# **Intox EC/IR-11: Accuracy Check**

## *Department of Forensic Science*

Serial Number: 010663      Test Number: 171

Test Date: 03/20/2014      Test Time: 14:46 EDT

Dry Gas Target: 0.299

Lot Number: AG322702-06      Exp Date: 08/15/2015

Tank Pressure: 183 psi      Barometric Pressure: 757 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 14:46 |
| CHK  | 0.302  | 14:47 |
| BLK  | 0.000  | 14:49 |
| CHK  | 0.302  | 14:49 |
| BLK  | 0.000  | 14:51 |
| CHK  | 0.301  | 14:52 |

Test Status: *Success*

Calibration CRC: 2B642DDA

**Intox EC/IR-II: Accuracy Check**

DBH  
TLN

*Department of Forensic Science*

Serial Number: 010663      Test Number: 172

Test Date: 03/20/2014      Test Time: 14:55 EDT

Dry Gas Target: 0.100

Lot Number: AG227501-28      Exp Date: 10/01/2014

Tank Pressure: 605 psi      Barometric Pressure: 757 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 14:56 |
| CHK  | 0.100  | 14:57 |
| BLK  | 0.000  | 14:58 |
| CHK  | 0.100  | 14:59 |
| BLK  | 0.000  | 15:01 |
| CHK  | 0.100  | 15:01 |

Test Status: *Success*

Calibration CRC: 2B642DDA

DBH  
+LW




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

|   |                             |
|---|-----------------------------|
| NAME OF ACCUSED<br><b>INSTRUMENT, TEST,</b> | NAME OF COURT<br><b>DFS</b> |
|---|-----------------------------|

BREATH ANALYSIS

|   |                                      |   |
|---|--------------------------------------|---|
| SAMPLE EXAMINED AND TEST CONDUCTED BY<br><b>HALL, DONALD, B</b> |                                      | AGENCY<br><b>DFS Central Lab</b>  |
| DFS LICENSE NUMBER<br><b>21250</b>                              | LICENSE EXPIRES<br><b>10/01/2014</b> | DATE TEST CONDUCTED<br><b>03/20/2014</b>  |
| TEST EQUIPMENT NUMBER<br><b>010663</b>                          |                                      |  |

RESULTS: TIME SAMPLE TAKEN 15:10 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 20 Mar 2014 at 15:21

HMS  
DBH  
TLW

## Test Results

Instrument Serial Number 010663

Test # 000173 Subject Test

Test Location 1 Department of  
Test Date 20 Mar 2014

Test Location 2 Forensic Science  
Test Time 15:04  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 20 Mar 2014 End Time 15:12

Result Time 15:10

Result Date 20 Mar 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:04

Data Type BLK

Sample Value 0.000

Sample Time 15:05

Data Type CHK

Sample Value 0.100

Sample Time 15:06

Data Type BLK

Sample Value 0.000

Sample Time 15:07

Data Type SUBJ

Sample Value 0.000

Sample Time 15:08

Data Type BLK

Sample Value 0.000

Sample Time 15:09

Data Type SUBJ

Sample Value 0.000

Sample Time 15:10

Data Type BLK

Sample Value 0.000

Sample Time 15:11

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG227501-28

Standard Expiration Date 10/01/2014

Tank Pressure 595

Barometric Pressure 757 mmHg

Blow Sample Number 1 Blow Duration 3.61 sec

Blow Volume 2011 cc

End-of-Blow Time 15:08

Blow Sample Number 2 Blow Duration 3.67 sec

Blow Volume 2086 cc

End-of-Blow Time 15:10

Tamper Evident Stamp a49025f9

Test Status Code 0

Test Status Success